

EXHIBIT

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Message

From: Vinny Taneja [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=EB504C3890134548861B460EC29F46CE-VINNY TANEJ]
Sent: 3/29/2018 7:45:01 PM
To: Alma R. Espinoza [arespinoza@tarrantcounty.com]
Subject: Fwd: TC Opioid Report
Attachments: 2018.03.29_Opioids in TC_Updated.pdf

I need 6 copies, just like today's.

Only change on the label, under FOUO plz write "For Official Use Only" and stick the label to the top right corner

Thanks

Vinny Taneja, MBBS; MPH
Director
Tarrant County Public Health
PH: 817-321-5301

----- Original message -----

From: Vinny Taneja <vtaneja@TarrantCounty.com>
Date: 3/29/18 1:24 PM (GMT-06:00)
To: Kelly Hanes <dkhanes@TarrantCounty.com>
Subject: Fwd: TC Opioid Report

Vinny Taneja, MBBS; MPH
Director
Tarrant County Public Health
PH: 817-321-5301

----- Original message -----

From: Talmage Holmes <THolmes@tarrantcounty.com>
Date: 3/29/18 9:10 AM (GMT-06:00)
To: Vinny Taneja <vtaneja@TarrantCounty.com>
Subject: FW: TC Opioid Report

Vinny,
Attached is the TC Opioid report from Micky along with her explanation regarding pending data.
Tal

Talmage M. Holmes, PhD, MPH
Associate Director, Disease Control and Prevention

Exhibit
0008
TANEJA

Tarrant County Public Health
1100 South Main
Ft. Worth, Texas 76104
Phone: 817-321-5377
Fax: 817-321-5331
tholmes@tarrantcounty.com

From: Micky M. Moerbe
Sent: Thursday, March 29, 2018 8:10 AM
To: Talmage Holmes <THolmes@tarrantcounty.com>
Cc: Russell W. Jones <rwjones@TarrantCounty.com>; Abigail L. Cheney <ALCheney@tarrantcounty.com>; Danielle N. Carlton <DNCarlton@tarrantcounty.com>
Subject: TC Opioid Report

Dr. Holmes:

Attached is a PDF of the updated Opioid report. Results from the data we received from Medical Examiner's office are presented on pages 2 and 3. Otherwise the information is the same as the draft sent out last week.

Please note that results from the Texas State Board of Pharmacy are still pending. These data will allow us to describe the persons receiving prescriptions by gender, city, ZIP code, number of pills prescribed, and number of refills available. We are waiting for some variable clarifications from the Texas State Board of Pharmacy and therefore do not have an estimate yet for when these results may be available. With over 3 million prescriptions filled by licensed pharmacies located in Tarrant County per year, it will understandably take some time to clean those data and we have three years of prescriptions to analyze. I assure you this is a priority and we are working diligently to provide accurate and meaningful results.

Please let me know if there are any changes needed. I truly appreciate your help and guidance through this process,

~Micky

Micky M. Moerbe, MPH, CPH

Biostatistician
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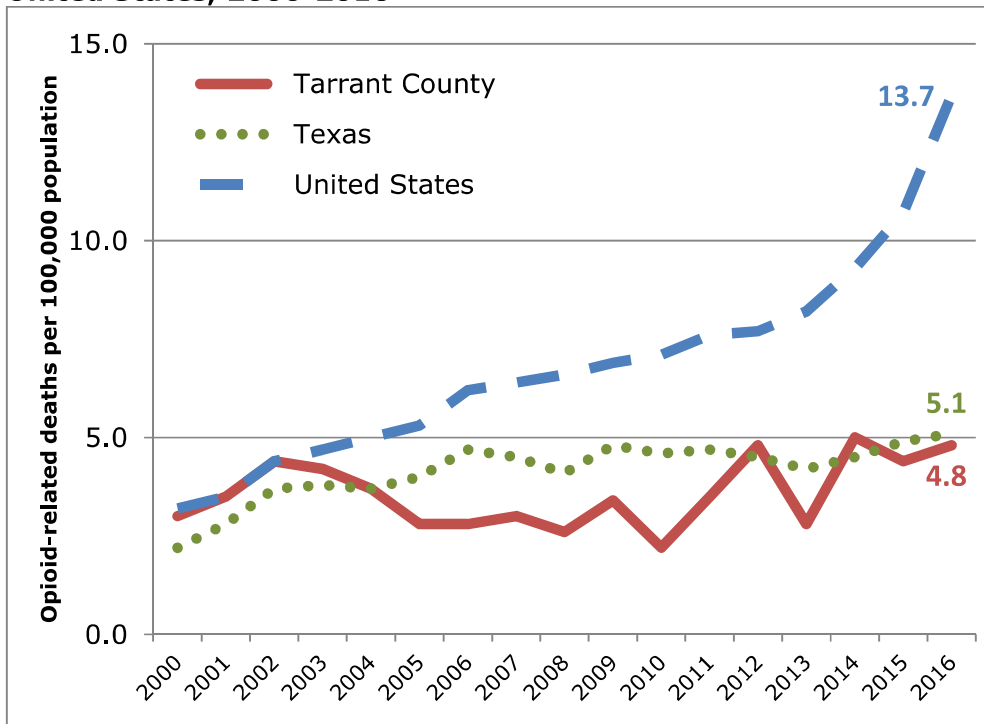
Let us know how we're doing
by completing a brief survey at
<https://www.surveymonkey.com/r/WGRWCJR>



Tarrant County Public Health
Division of Epidemiology and Health Information

Opioids in Tarrant County

Figure 1. Opioid-related deaths among residents of Tarrant County, Texas, and the United States, 2000-2016



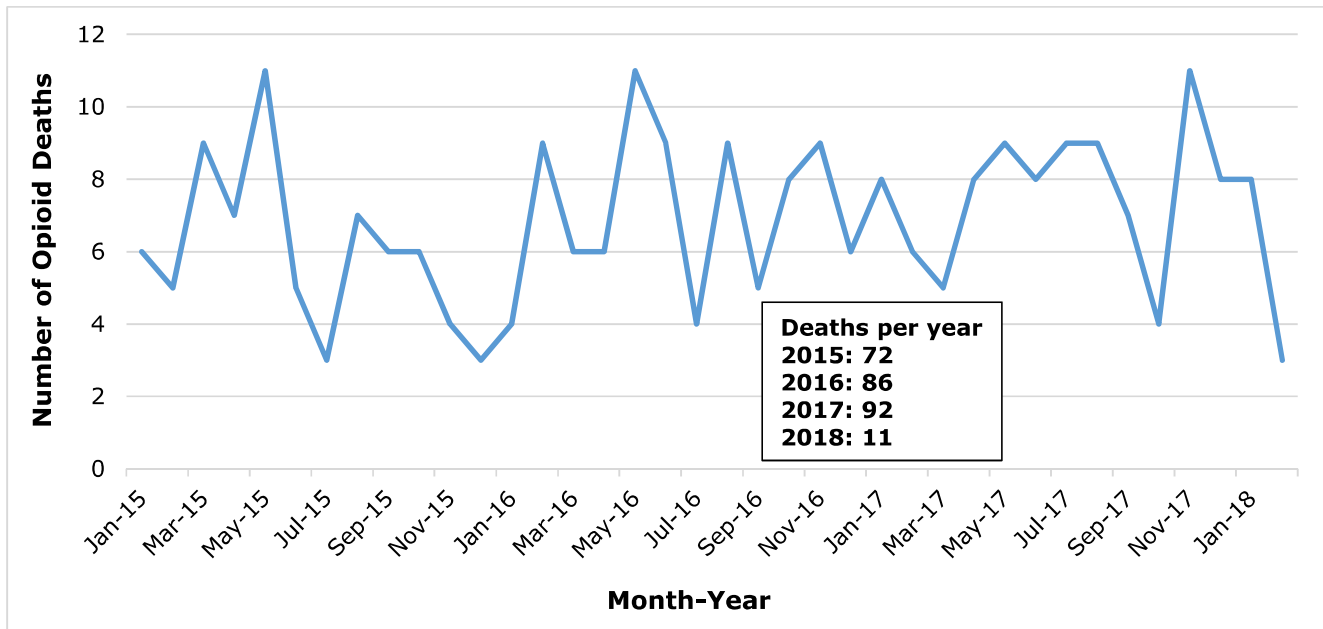
Includes deaths with opium, heroin, other opioids, methadone, other synthetic narcotics or other and unspecified narcotics listed as contributing cause of death

Rate per 1000,000 population age-adjusted to 2000 U.S. standard population

Data source: National Center for Health Statistics, Centers for Disease Control and Prevention

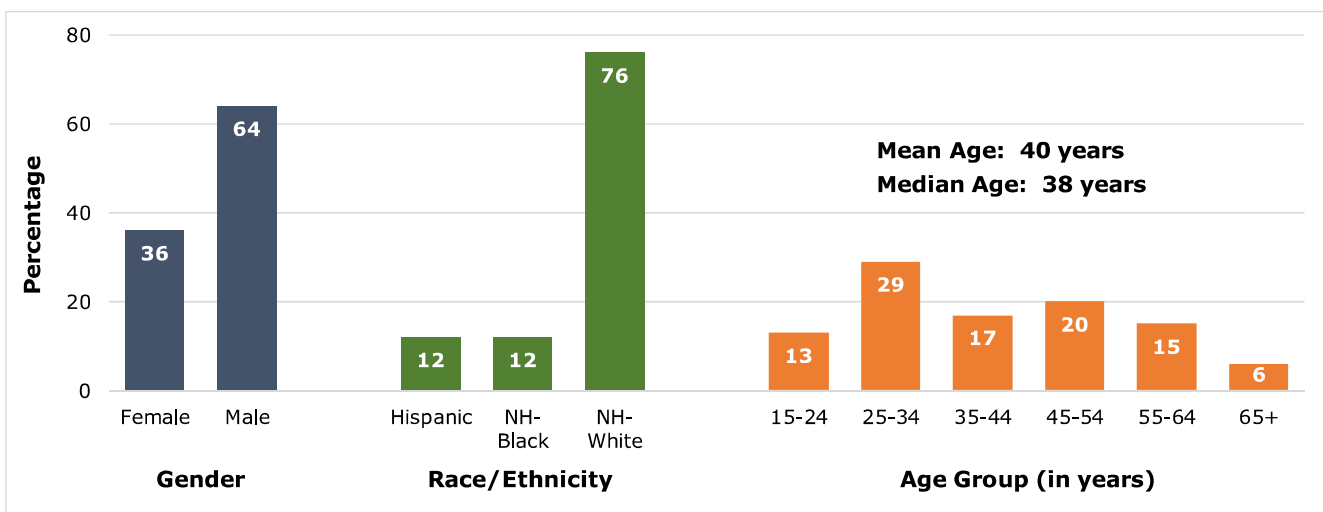
- The National Center for Health Statistics reported 97 opioid-related deaths in Tarrant County in 2016, almost three times more than drunk driving fatalities (n=35). Among those opioid-related deaths, 70% were male, 70% were non-Hispanic white, and the most frequent age group was 25-34 years (27%).
- In 2016, 45% of drug overdose deaths in Tarrant County involved an opioid.
- The age-adjusted mortality rate for opioid-related deaths in Tarrant County was 4.8 deaths per 100,000 population in 2016. The mortality rate for Tarrant County was the lowest among the five most populous counties in Texas and was significantly lower than the opioid-related mortality rate of Travis County (9.3). The other county mortality rates were as follows: Harris (5.5), Dallas (6.7), and Bexar (6.4).

Figure 2. Opioid deaths among Tarrant County residents reported by the Tarrant County Medical Examiner's Office per month from January 2015 through February 2018



Data source: Tarrant County Medical Examiner's Office

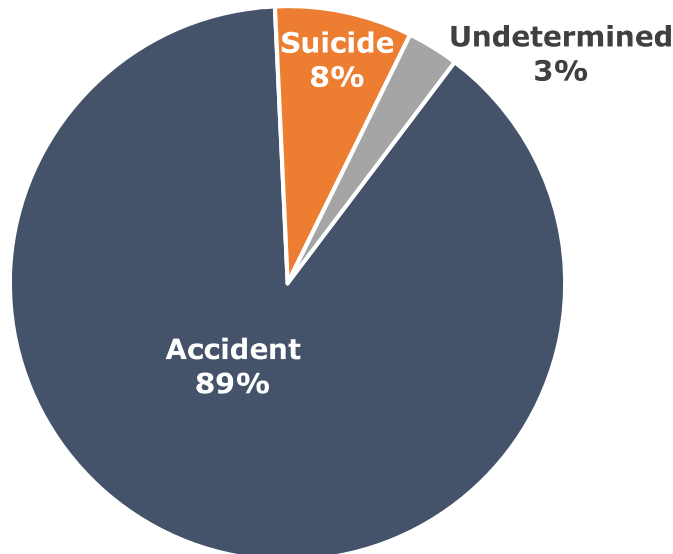
Figure 3. Percentage of opioid deaths among Tarrant County residents reported by the Tarrant County Medical Examiner's Office by selected demographics, January 2015 through February 2018 (n=261)



NH = Non-Hispanic

Data source: Tarrant County Medical Examiner's Office

Figure 4. Percentage of opioid deaths among Tarrant County residents reported by the Tarrant County Medical Examiner's Office by manner of death, January 2015 through February 2018 (n=261)

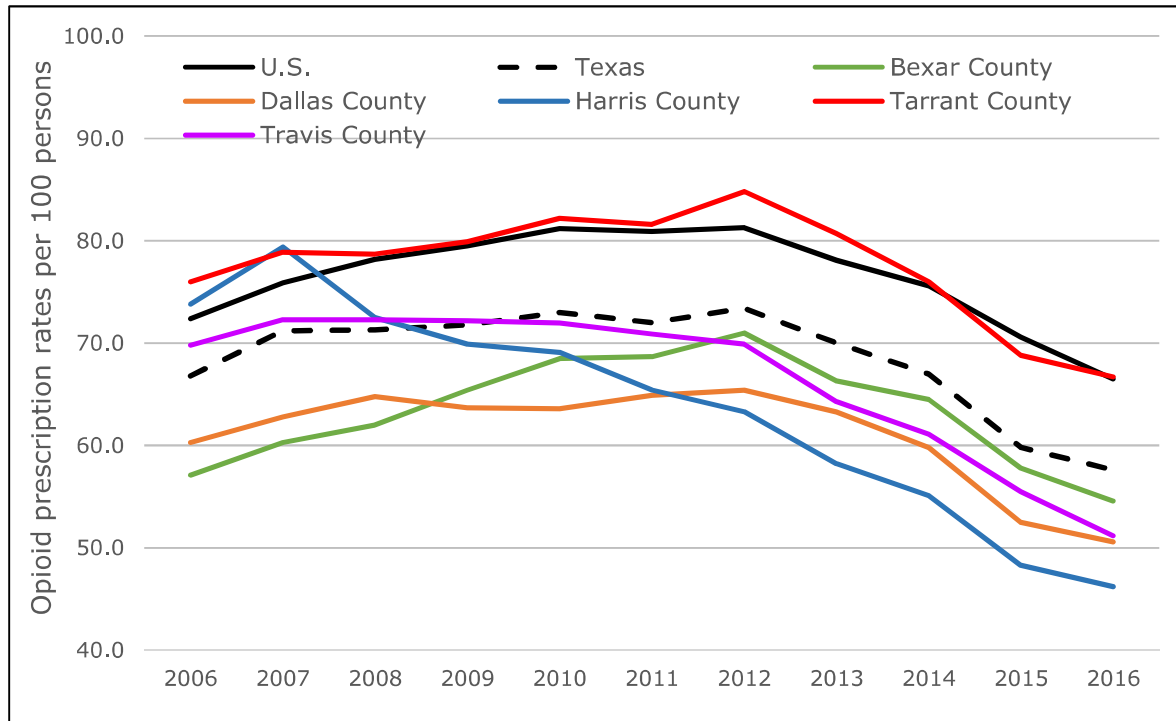


Data source: Tarrant County Medical Examiner's Office

- From January 2015 through February 2018, the Tarrant County Medical Examiner's office reported the following opioid deaths by decedent city:
 - 108 among residents of Fort Worth
 - 43 among residents of Arlington
 - 15 among residents of North Richland Hills
 - 12 among residents of Hurst.
 Remaining cities each had less than 10 deaths

- From January 2015 through February 2018, the Tarrant County Medical Examiner's office reported the following opioid deaths by decedent ZIP code:
 - 14 among residents of ZIP code 76180
 - 10 among residents of ZIP code 76137
 - 10 among residents of ZIP code 76053
 Remaining ZIP codes each had less than 10 deaths

Figure 5. Opioid prescription rates among residents of the United States, the State of Texas, and the five most populous counties in Texas, 2006-2016

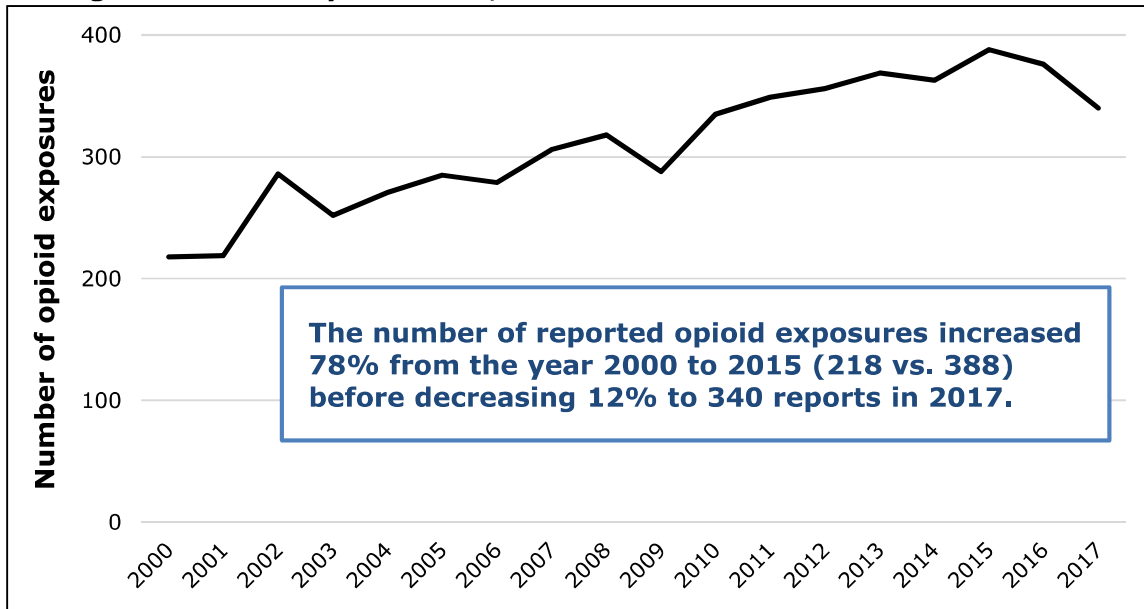


Rate is number of retail opioid prescriptions dispensed per 100 residents

Note: Y-axis begins at 40.0, not zero

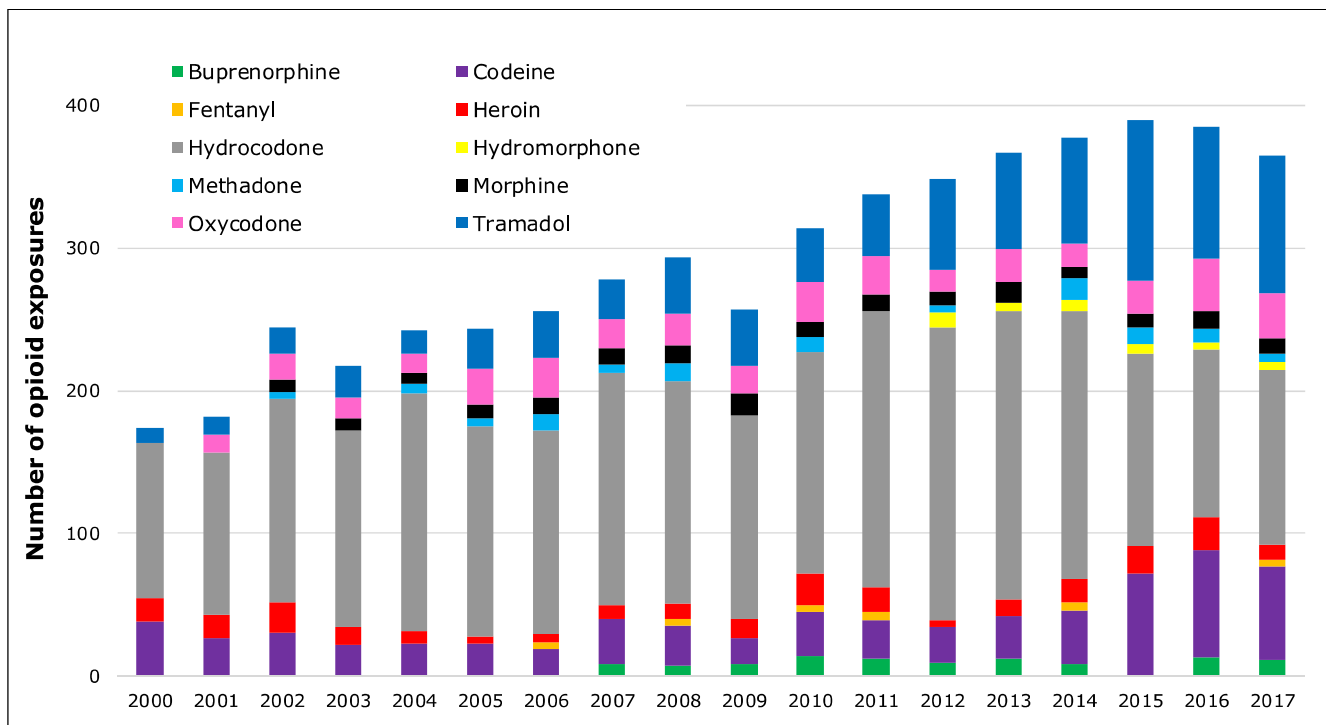
Data source: National Center for Injury Prevention and Control

- In 2016, Tarrant County had the highest rate of opioid prescriptions (66.7 per 100 residents) among the five most populous counties in Texas, followed by Bexar County (54.6), Travis County (51.2), Dallas County (50.6), and Harris County (46.2).
- The Tarrant County opioid prescription rate decreased 21% from 2012 to 2016 (84.8 vs. 66.7 opioid prescriptions per 100 residents)
- The Tarrant County opioid prescription rate in 2016 ranked 88th among Texas counties (ranking among 218 of the 254 Texas counties with available data). Childress County had the highest prescription rate at 177.3 opioid prescriptions per 100 residents.

Figure 6. Number of opioid exposures reported to the Texas Poison Center Network among Tarrant County residents, 2000-2017

Tarrant County location is self-reported; Exposure may involve more than one opioid

Data source: Texas Poison Center Network

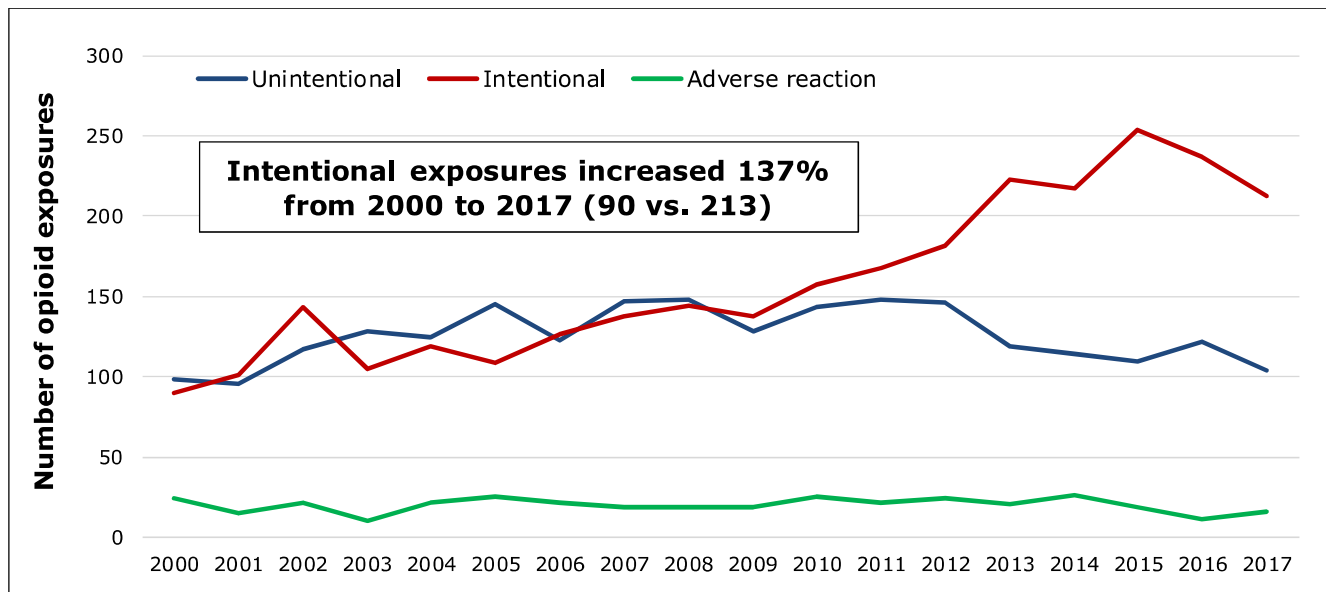
Figure 7. Number of opioid exposures reported to the Texas Poison Center Network among Tarrant County residents by drug type, 2000-2017

Tarrant County location is self-reported; Exposure may involve more than one opioid

Data source: Texas Poison Center Network

- In 2017, Hydrocodone accounted for the largest proportion (38%) of all opioid exposures reported to the Texas Poison Center Network among Tarrant County residents, followed by Tramadol (29%) and Codeine (19%).
- The drug Tramadol had the greatest increase in reports among Tarrant County residents with an almost 800% increase from 11 reported exposures in the year 2000 to 97 reported exposures in 2017.

Figure 8. Number of opioid exposures reported to the Texas Poison Center Network among Tarrant County residents by exposure intent, 2000-2017



Exposure intent defined as:

Unintentional - Exposure resulting from an unforeseen or unplanned event

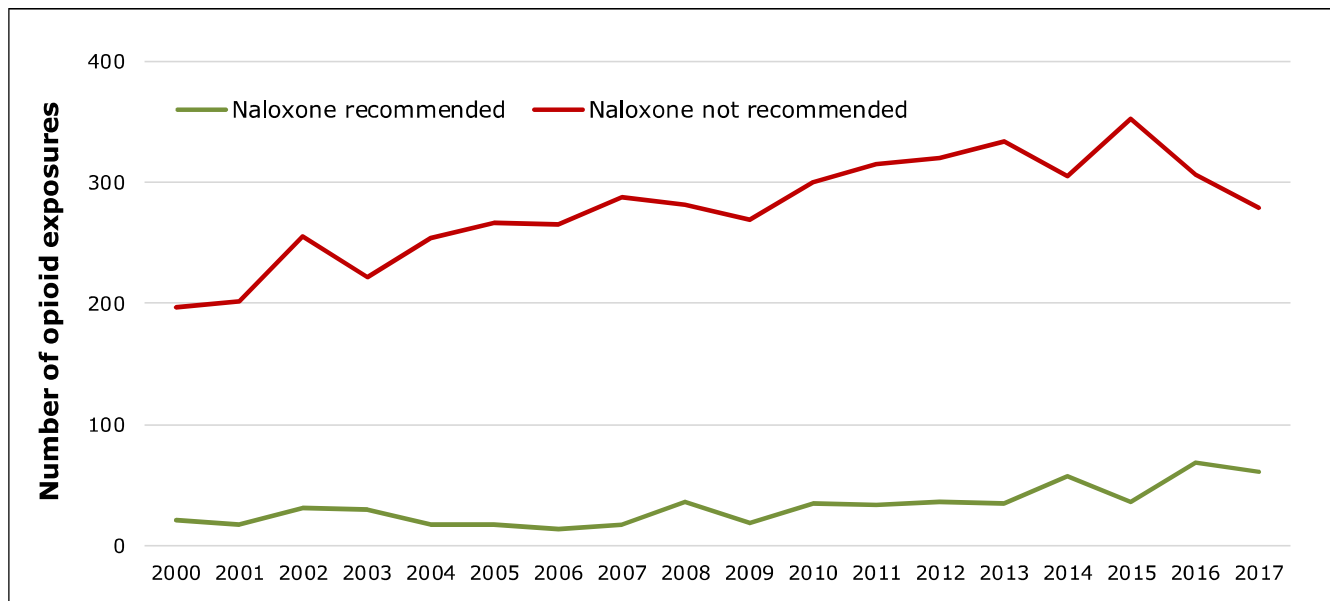
Intentional - Exposure resulting from a purposeful action

Adverse Reaction - Unwanted effects due to an allergic, hypersensitivity, or idiosyncratic response to the active ingredient(s), inactive ingredient(s) or excipient of a drug, chemical, cosmetic, food or other substance when the exposure involves the normal, prescribed, labeled or recommended use of the substance

Tarrant County location is self-reported; Exposure may involve more than one opioid

Data source: Texas Poison Center Network

Figure 9. Number of opioid exposures reported to the Texas Poison Center Network among Tarrant County residents by Naloxone recommendation, 2000-2017

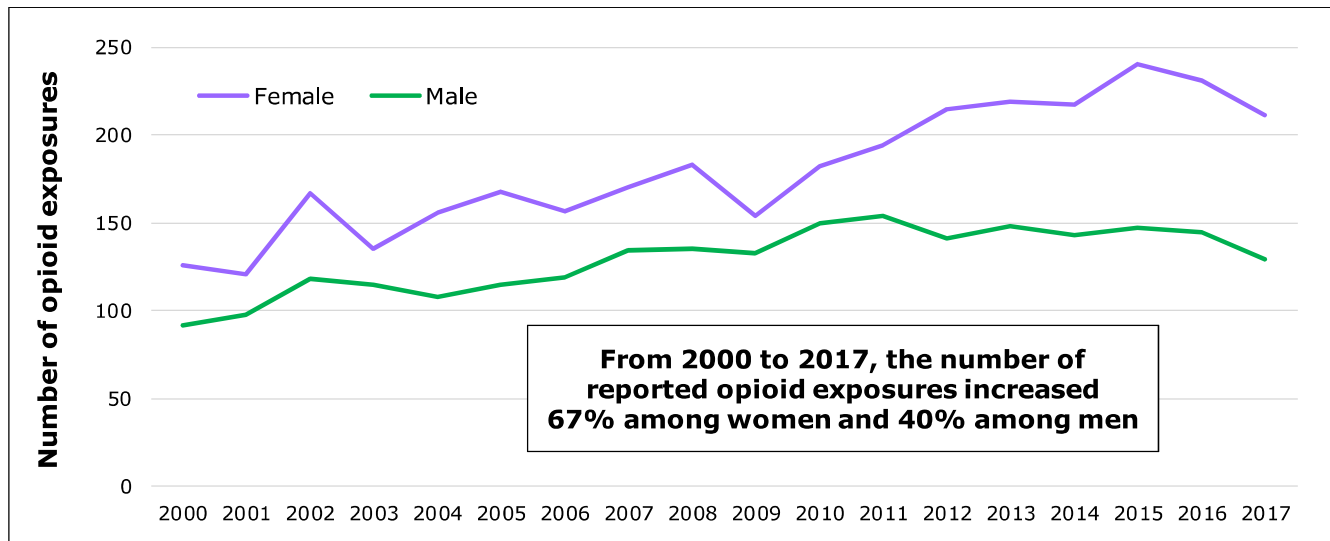


Naloxone recommendation indicates that Texas Poison Center Network personnel responding to the opioid exposure call recommended naloxone use for the victim. These numbers do not reflect the number of opioid exposure victims who were actually administered Naloxone.

Tarrant County location is self-reported; Exposure may involve more than one opioid

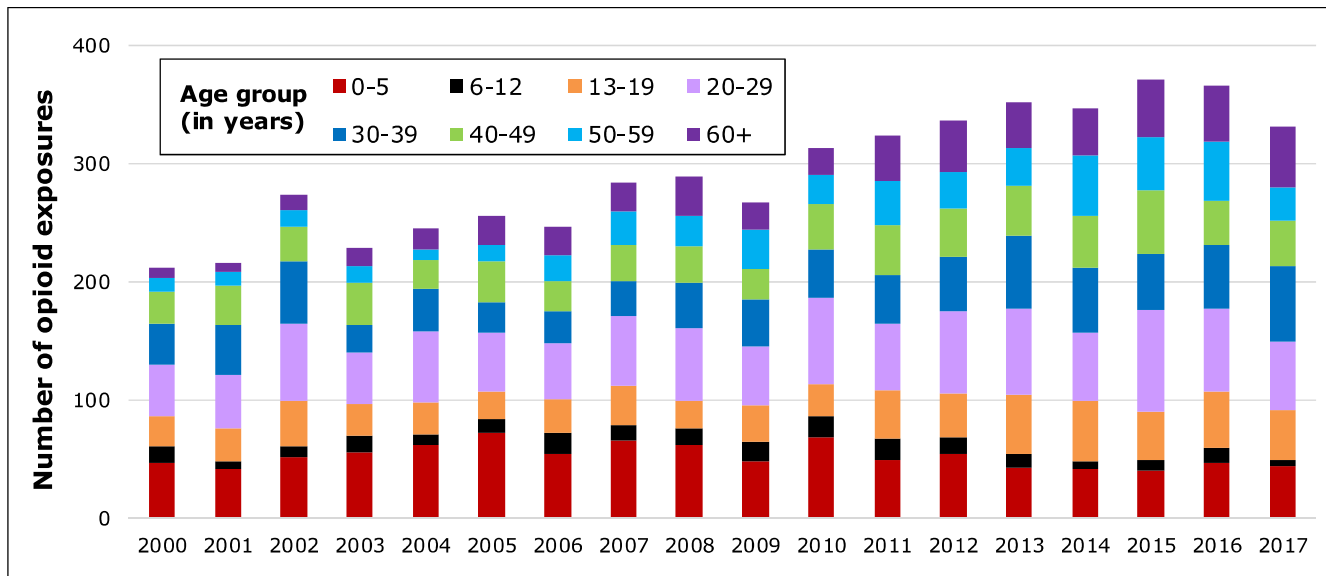
Data source: Texas Poison Center Network

Figure 10. Number of opioid exposures reported to the Texas Poison Center Network among Tarrant County residents by gender, 2000-2017



Tarrant County location is self-reported; Exposure may involve more than one opioid

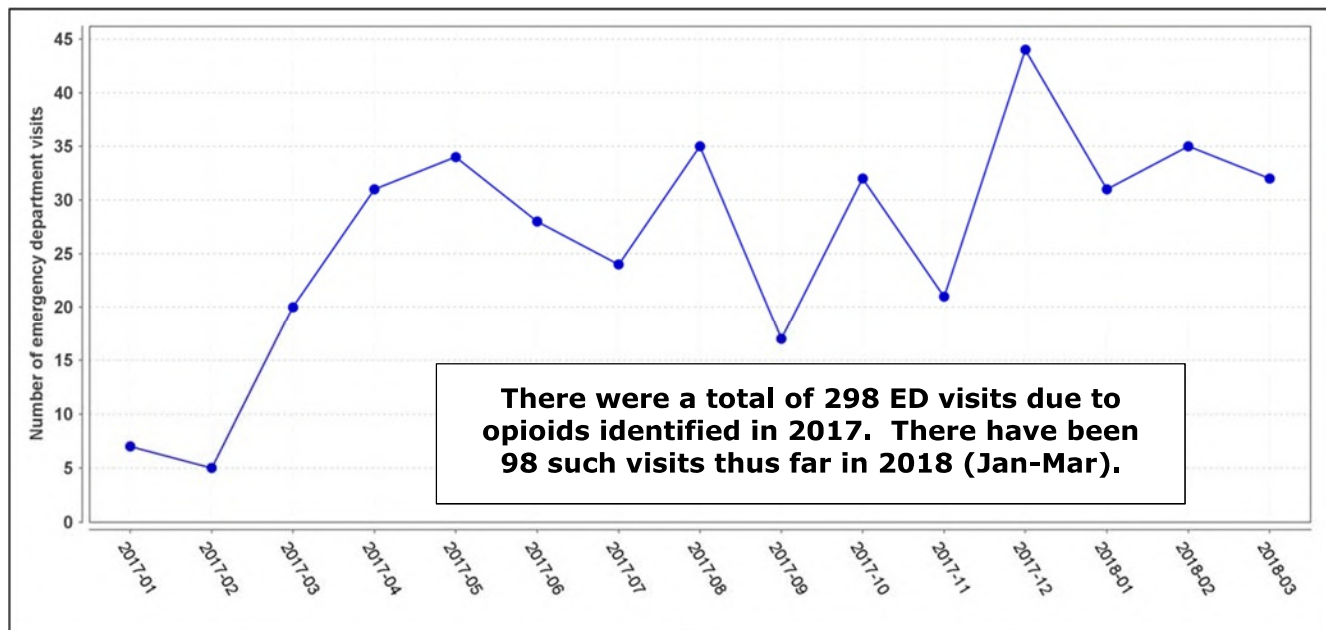
Data source: Texas Poison Center Network

Figure 11. Number of opioid exposures reported to the Texas Poison Center Network among Tarrant County residents by age group, 2000-2017

Tarrant County location is self-reported; Exposure may involve more than one opioid

Data source: Texas Poison Center Network

- In 2017, the largest number of opioid exposures reported to the Texas Poison Center Network were among Tarrant County residents aged 30-39 years (n=63), followed by residents aged 20-29 years (n=58) and residents aged 60 years or more (n=52).
- Reported opioid exposures among Tarrant County residents aged 0-5 years decreased 39% from 72 exposures in 2005 to 44 exposures in 2017.

Figure 12 Opioid-related emergency department visits among Tarrant County residents, January 2017 – March 2018

Data source: Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE)

- In 2017, there were 3,298,312 prescriptions filled by licensed pharmacies located in Tarrant County. Of those total prescriptions, 1,438,071 (44%) were drugs classified as Opiate Agonists and 54,030 (2%) were Opiate Partial Agonists (*Data source: Texas State Board of Pharmacy*).

Action items:

- National Prescription Drug Take Back Day** Saturday April 28, 2018. The event aims to provide a safe, convenient, and responsible means of disposing of prescription drugs, while also educating the general public about the potential for abuse of medications. Marketing materials are available at: <https://takebackday.dea.gov/content/take-back-day-2018>
- Below is a list of US Department of Justice- Drug Enforcement Administration Controlled Substance Public Disposal Locations in Tarrant County

Business Name	Address	City, State, Zip
CVS Pharmacy, Inc.	5900 W. Pleasant Ridge Rd.	Arlington, TX 76016
KVG Enterprises Inc. Randol Mill Pharmacy	1014 North Fielder Rd.	Arlington, TX 76012
Ray's Town North Pharmacy	975 N Cooper St.	Arlington, TX 76011
Walgreen Co.	3400 Matlock Rd.	Arlington, TX 76015
Allied Pharmacy Services	Jerry W. Jackson 801 Stadium Dr., #111	Arlington, TX 76011
JPS Health System	1500 South Main St., Ste OPC 1	Fort Worth, TX 76104
Cook Children's Pharmacy 1	801 7th Ave., Ste 1700	Fort Worth, TX 76104
AHF Pharmacy	400 N Beach St., Ste 102	Fort Worth, TX 76111
Perronerx, LLC	3923 Hwy 377 South	Fort Worth, TX 76116
Walgreen Co.	6205 Westcreek Dr.	Fort Worth, TX 76133
Walgreen Co.	4520 Western Center Blvd.	Haltom City, TX 76137
Walgreen Co.	780 W. Bedford Euless Rd.	Hurst, TX 76053
CVS Pharmacy, Inc.	101 N. Rufe Snow Dr.	Keller, TX 76248
Q I C Pharmacy Services	1831 East Broad St., Ste 213	Mansfield, TX 76063
Walgreen Co.	1317 S. Main St.	Weatherford, TX 76086